PATENT COOPERATION TREATY

JUN 2 7 2005

PATENT DOCKETING

005

From the INTERNATIONAL SEARCHING AUTHORITY

To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121-2133		PCT JUN 2 7 2		
		NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPOR PLANFIPE THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
		(PCT Rule 44.1)		
		Date of mailing (day/month/year) 23 JUN 2003.		
Applicant's or agent's file reference JHυ 1930 ω	0	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US04/32148		International filing date (day/month/year) 29 September 2004 (29.09.2004)		
Applicant THE JOHNS HOPKINS UNIVERSITY				
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):				
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.				
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35				
For more detailed instructions, see the notes on the accompanying sheet.				
 The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith. 				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision theroon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision theroon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders				
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International				

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postopone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparation for international publisation.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant whise to prospone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated officiars.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II. National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 22313-1450

Telephone No. (571) 272-1600

Welle Ball-Karres A

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

see Form PCT/ISA/220

as well as, where applicable, item 5 below.

International filing date (day/month/year) (Earliest) Priority Date (day/month/year)

FOR FURTHER

ACTION

Applicant's or agent's file reference

International application No.

JHU193WO

PCT/US04/32148	29 September 2004 (29.09.2004)	29 September 2003 (29.09.2003)		
Applicant THE JOHNS HOPKINS UNIVERSITY				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of 2 sheets. It is also accompanied by a copy of each prior art document cited in this report.				
With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application.				
firmished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.				
	unsearchable (See Box No. II)			
3. Unity of invention is lacking	ng (See Box No. III)			
4. With regard to the title,				
the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:				
5. With regard to the abstract,				
the text is approved as subn				
the text has been established may, within one month from	d, according to Rule 38.2(b), by this Authority the date of mailing of this international search	as it appears in Box No. IV. The applicant h report, submit comments to this Authority.		
as suggested by the	Authority, because the applicant failed to sugg Authority, because this figure better characteri			
Form PCT/ISA/210 (first sheet) (January 20				

INTERNATIONAL SEARCH REPORT

Facsimile No. (703) 305-3230

International application No.

			PC1/US04/32148		
A. CLASS	SIFICATION OF SUBJECT MATTER				
IPC(7)	: A61K 31/445, C07D 401/12				
USCL	: 546/184, 192, 208; 548/255, 257, 259; 514/3		ı ma		
	nternational Patent Classification (IPC) or to both na S SEARCHED	monai ciassincamon	and IrC		
	umentation searched (classification system followed 5/184, 192, 208; 548/255, 257, 259; 514/315, 318	by classification sy	nbols)		
Documentation	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, CAS ONLINE					
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the re	elevant passages	Relevant to claim No.	
A	US 4,378,360 A (BUCKLE et al) 29 March 1983 (2	29.03.1983).		1-41	
A	US 4,424,361 A (TEDDER et al) 03 January 1984 (03.01.1984).			1-14	
1					
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	1 1 1 d d d d d d d d d d d d d d d d d	П	ent family annex.		
	locuments are listed in the continuation of Box C.			national filing date or priority date	
•	cial estegories of cited documents:	and not in	conflict with the application b	out cited to understand the	
"A" document de particular re	efining the general state of the art which is not considered to be of levance		or theory underlying the invent t of perticular relevance; the cl		
	cation or patent published on or after the international filing date	considere	d novel or cannot be considere document is taken alone	d to involve an inventive step	
	thich may throw doubts on priority claim(s) or which is cited to epublication date of enother citation or other special reason (as	considere	t of particular relevance; the cli d to involve an inventive step	nimed invention cannot be when the document is combined such combination being obvious	
"O" document re	ferring to an oral disclosure, use, exhibition or other means		n skilled in the set	speci centonianen senig covices	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			mily		
Date of the actual completion of the international search 06 April 2005 (06.04.2005) Date of mailing of the international search report 23 JUN 2005			ch report		
06 April 2005			7N ZUU3		
	ling address of the ISA/US	Authorize Office	JB-00-4	011.00	
Name and mailing address of the ISA/US Mail Stop PCT, Attr. ISA/US Commissioner for Patents P.O. Box 1450 min; 2932 1450 Telephone No. (571) 272-1600					
P.O. E	P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1600				
Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1600					

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					
TO: LISA A HAILE GRAY CARY WARE & FREIDENRICH LLP 4366 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA. 92121-2133		PCT WRITTEN OPINION OF THE			
				INTERNATIO	ONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	23 JUN 2005
l	's or agent's file r	eference		FOR FURTHER ACTION See paragraph 2 below	
JHU193W	/O nal application No		International filing date ((dayles outh hoose)	Priority date (day/month/year)
1		٠.			
PCT/US0-		cation (IPC)	29 September 2004 (29.0 or both national classification		29 September 2003 (29.09.2003)
1			US Cl.: 546/184, 192, 208;		514/315 318
Applicant		J 401/12 and	US CI.: 340/164, 192, 206,	, 546/255, 257, 259,	514515, 510
THE JOH	NS HOPKINS UI	VIVERSITY			
1. This c	pinion contains i	ndications rel	ating to the following items	3 .	
	Box No. I Basis of the opinion				
	Box No. II	Priority			
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	V Lack of unity of invention			
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain obs	ervations on the internation	nal application	
2. FUR	THER ACTIO	N			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the international Preliminary Examining Authority ("PRA") except that this does not apply where the applicant chooses an Authority other than this once to be the PRA And the chosen PRA has notified the international Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and	mailing address o	fthe ISA/TK		Authorized office	· · · · · · · · · · · · · · · · · · ·
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents			•	Golam M M Sha	uBell-Harrigh
P.O. Box 1450 Alexandria, Virginia 22313-1450				Telephone No. (5	71) 272-1600

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE

nternational	application	No.
.am # 100 1 //		

INTERNATIONAL SEARCHING AUTHORITY PCT/US04/32148 Box No. I Basis of this opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing h format of material in written format in computer readable form c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4 Additional comments: